PATENT COOPERATION TREATY PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

pplicant's or agent's file reference 3063PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416		
nternational application No.	International filing date (day/month/year) 9 August 2004	Priority date (day/month/year) 8 August 2003		
nternational Patent Classification (IPC) or	national classification and IPC	·		
nt. Cl. 7 H03M 13/47; H04B 7/14				
cLIPSAL INTEGRATED SYST	TEMS PTY LTD et al	·		
 This report is the international preliming Authority under Article 35 and transmit. This REPORT consists of a total of 4 	nary examination report, established by this In itted to the applicant according to Article 36.	ternational Preliminary Examining		
 This REPORT consists of a total of . This report is also accompanied by AN 				
	he International Bureau) a total of sheets, a	s follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items:				
4. This report contains indications relations. X Box No. I Basis of the rep				
Box No. II Priority		·		
Box No. III Non-establishn	nent of opinion with regard to novelty, invent	ive step and industrial applicability		
Rox No. IV. Lack of unity of	of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain docum		·		
·	s in the international application			
Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of completion	of the report		
8 June 2005	17 June 2005	17 June 2005		
Name and mailing address of the IPEA/AU	Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUST E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	RALIA BEN TUOHY Telephone No. (0)	2) 6283 7918		

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001054

	No. I		Basis of	the report		Ì
	With	regar wise i	d to the la	nguage, this	report is based on the international application in the language in which it was filed, unless n.	
1	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:					
					ander Rules 12.3 and 23.1 (b))	
			publicati	on of the inte	rnational application (under Rule 12.4)	
		\Box	internati	onal prelimin	ary examination (under Rules 55.2 and/or 55.3)	
••	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	Juea X	the i	nternation	al application	as originally filed/furnished	1
			lescription		$oldsymbol{\cdot}$	1
		шос		pages	as originally filed/furnished	9
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		the c	laims:		11. Stad/Grenished	
				pages	as originally filed/furnished as amended (together with any statement) under Article 19	ľ
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	П	a se	quence lis	ting and/or a	ny related table(s) - see Supplemental Box Relating to Sequence Listing.	١
3.					alted in the cancellation of:	١
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		ľ		laims, Nos.	•	
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					ed to the sequence listing (specify):	
4.		ma			lished as if (some of) the amendments annexed to this report and listed below had not been n considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule	
				description, p	ages	
			لــا	claims, Nos.		
				drawings, she	·	
			the	sequence list	ing (specify):	
			any	table(s) relat	ed to the sequence listing (specify):	
		lf item	4 applies,	some or all of t	hose sheets may be marked "superseded."	

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application	No
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•	MIEK	NATIONAL I REMINING TABLE STATE OF THE STATE	PCT/AU2004/001054
- :o:	x No. IV	Lack of unity of invention	
-	In resp	conse to the invitation to restrict or pay additional fees the applicant has:	
		restricted the claims.	
•		paid additional fees.	
		paid additional fees under protest.	
		neither restricted nor paid additional fees.	
<u>?</u> .	X This a not to	Authority found that the requirement of unity of invention is not complied with invite the applicant to restrict or pay additional fees.	and chose, according to Rule 68.1,
3.	This Author	rity considers that the requirement of unity of invention in accordance with Rule	es 13.1, 13.2 and 13.3 is:
	comp	lied with.	
	لتتا	omplied with for the following reasons:	·
		international application does not comply with the requirements of unity e to one invention or to a group of inventions so linked as to form a sing ing to this conclusion the International Searching Authority has found the	at there are two inventions:
	1.	Claims $1-41$, $43-46$, $48-50$ and $52-60$ are directed to a radio commutate frames coded so as to be perceived by the device receiving the data device is already receiving data from another source. It is considered the comprises a first "special technical feature".	munications system including a frame, as a collision when the at the detection of a collision
	2.	Claims 42, 47 and 51 are directed to a radio communications system income and a repeater located intermediate the transceivers such that upon receivers transceiver, the repeater re-transmits the data transmission from the that a repeater located intermediate the transceivers such that upon receivers transceiver, the repeater re-transmits the data transmission from the second "special technical feature".	e first transceiver. It is considered into of a data transmission from a
	llana	ce the above mentioned groups of claims do not share either of the technical relationship" between the inventions, as defined in PCT rule 13.2 rnational application does not relate to one invention or to a single inven	GOES HOL CYIST. MCCOLCHIBLY
4	4. Conseque	ntly, this report has been established in respect of the following parts of the inte	rnational application:
	X	all parts.	
		the parts relating to claims Nos.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001054

ox No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement						
Novelty (N)	Claims 1 - 60	YES				
	Claims None	NO				
Inventive step (IS)	Claims 1 – 60	YES				
mvonave step (as)	Claims None	NO				
Industrial applicability (IA)	Claims 1 – 60	YES				
moustriat approachity (21)	Claims None	NO				
	Cidinis 11020					

^{2.} Citations and explanations (Rule 70.7)

Documents cited for the purpose of compiling this report:

- (D1) JP 2001-231078 A (NIPPON TELEGRAPH & TELEPHONE CORP.) 24 August 2001, see whole document (English translation sourced from JP web site: http://www19.ipdl.jpo.go.jp/PA1/cgi-bin/PA1INIT?); and
- (D2) US 5040175 A
- (D3) WO 2004/034310 A2

NOVELTY (N) and INVENTIVE STEP (IS) claims 1 - 60

Claims 1-41, 43-46, 48-50 and 52-60 are novel and inventive in light of the cited prior art documents D1 – D3 that do not, either alone or in obvious combination, disclose all of the features defined in the claims. In particular none of the documents either disclose or obviously suggest to a person skilled in the art the defined feature of a data frame used in a radio frequency communications network including data that is coded so as to be perceived by a device receiving the data frame, as a collision when the device is already receiving data from another source or the use of a fourth time slot for transmitting a collision indication.

Claims 42, 47 and 51 are novel and inventive in light of the cited prior art documents D1-D3 that do not, either alone or obvious combination, disclose all of the features defined in the claims. In particular none of the documents either disclose or obviously suggest to a person skilled in the art the defined feature of a radio communications system including a repeater that upon receiving data from one of either a first or second transceiver, in a first time slot, transmits a repeater flag in a second time slot, and then in a third time slot transmits the data received in the first time slot.